Al Amal Learning Center

Class 9 Mathematics Chapter 2: Logarithms Exercise 2.1 MCQs – Online Practice | FBISE

Class 9 Mathematics · Chapter 2: Logarithms

Name: _____ Date: _____ Score: _____ / 20

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1. What is 0.0000683 in scientific notation?

A) 6.83 × 10^-?
B) 6.83 × 10^-?
C) 6.83 × 10?
D) 68.3 × 10^-?

2. What is 45,000,000 in scientific notation?

A) 4.5 × 10?
B) 45 × 10?
C) 4.5 × 10?
D) 0.45 × 10?

3. What is 3.6 × 10^-? in standard notation?

A) 0.0036
B) 0.00036
C) 36,000
D) 0.000036

4. What is 7.2 × 10? in standard notation?

A) 72,000
B) 7,200,000
C) 720,000
D) 0.000072

5. Which of the following is written in scientific notation?

A) 19×10^2
B) 0.19 × 10?
C) 190 × 10
D) 1.9×10^3

6. If the decimal point is moved to the right to reach the reference position, the exponent of 10 is

A) positive
B) negative
C) zero
D) undefined

7. In 0.0804, the reference position is

A) after 0
B) after 8
C) after 4
D) before 8

8. What is 0.5 × 10? in scientific notation?

A) 5 × 10?
B) 5 × 10?
C) 0.5 × 10?
D) 50 × 10?

9. Simplify (3 × 10?) × (4 × 10?) in scientific notation.

A) 12 × 10?
B) 7 × 10?
C) 1.2 × 10?
D) 1.2 × 10^{1}?

10. Simplify (6 × 10?) ÷ (2 × 10?).

A) 3 × 10?
B) 3 × 10^{13}
C) 4 × 10?
D) 3 × 10^-?

11. Simplify (5 × 10^-^{3}) × (2 × 10^-?) in scientific notation.

A) 10 × 10^-?
B) 1 × 10^-?
C) 7 × 10^-?
D) 1 × 10^-?

12. What is 640 × 10^-? in scientific notation?

A) 6.4 × 10^-^{3}
B) 6.4 × 10^-?
C) 6.4 × 10^-^{2}
D) 64 × 10^-?

13. The sun is 1.5 × 10? km from Earth and light travels 3 × 10? km/s. How long does light take to reach Earth?

A) 5 × 10^{2} s
B) 5 × 10^{3} s
C) 4.5 × 10^{13} s
D) 2 × 10^-^{3} s

14. A signal travels at 2 × 10? km/s over a distance of 8 × 10? km. How long does it take?

A) 4 × 10^-? s
B) 1.6 × 10^{1}? s
C) 4 × 10? s
D) 4 × 10? s

15. Simplify (0.04 × 10?) ÷ (2 × 10^{2}) and write the answer in standard notation.

A) 20
B) 200
C) 2,000
D) 0.02

16. What is 2.5326 in scientific notation?

A) 25.326 × 10^-1
B) 2.5326 × 10?
C) 2.5326 × 10^{1}
D) 0.25326 × 10^{1}

17. What is 0.000000000012 in scientific notation?

A) 1.2 × 10^-1?
B) 1.2 × 10^-12
C) 1.2 × 10^-11
D) 1.2 × 10^{11}

18. In c = d × 10? (scientific notation), the values of d and n must satisfy

A) 0 <= d < 10, n ? Z
B) 1 <= d < 10, n ? Z
C) 1 <= d <= 10, n ? Z
D) 1 <= d < 10, n is a fraction

19. One light year is about 5,880,000,000,000 miles. In scientific notation this is

A) 5.88 × 10^{11}
B) 5.88 × 10^{13}
C) 58.8 × 10^{11}
D) 5.88 × 10^{12}

20. How many hours are in 3.6 × 10? seconds, written in scientific notation? (1 hour = 3600 s)

A) 1 × 10^{3}
B) 1 × 10^{2}
C) 1 × 10?
D) 1.2 × 10^{3}

Answer key

1-B 2-C 3-B 4-C 5-D 6-B 7-B 8-A 9-D 10-A

11-D 12-A 13-A 14-D 15-B 16-B 17-C 18-B 19-D 20-A